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ABSTRACT

Part of a series intended to highlight the implications for educational planning of the changing demography of the Southwestern United States, this report on California indicates that the greatest population growth in the next 20 years will occur among minority populations, whose rates of postsecondary educational attainment and socioeconomic status have been low historically. Projections place California's population between 30.1 million and 31.5 million by the year 2000, a 20-year growth rate of between 27% and 33%. Data show that people of Spanish origin accounted for 19.2% of the total 1980 California population but represented 32% of 0-4 age group, which should grow to 40% by 2000. Nationwide figures show that 83% of Whites completed high school compared with 72% of Blacks and 55% of American Indians and Hispanics. National data suggest that smaller percentages of students from low-income families enroll in postsecondary education than students from medium- and high-income families. In California, relatively high percentages of Spanish-origin, Black and American Indian families earned less than $15,000 in 1979. Although each minority has a unique pattern, present enrollment and earned degree patterns show considerable underrepresentation for Hispanics, Blacks, and American Indians at most levels of postsecondary education. (NEC)

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Minorities in Higher Education:

The Changing Southwest

California

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Western Interstate Commission for Higher Education
The College Board

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Minorities in Higher Education: The Changing Southwest

California

A report prepared by the WICHE Information Clearinghouse in cooperation with the Western Regional Office of the College Board and with the support of the Atlantic Richfield Foundation

Geoffrey Dolman, Jr.
Norman S. Kaufman

Western Interstate Commission for Higher Education WICHE

The College Board

WICHE

WICHE, the Western Interstate Commission for Higher Education, is a nonprofit regional organization. It helps the thirteen member states to work together to provide high-quality, cost-effective programs to meet the education and manpower needs of the West. Member states are Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. Through its Information Clearinghouse, WICHE provides information to assist higher education and governmental policy makers in the West.

This series of reports includes the following publications:

Minorities in Higher Education: The Changing Southwest (Arizona), publication no. 2A134a

Minorities in Higher Education: The Changing Southwest (California), publication no. 2A134b

Minorities in Higher Education: The Changing Southwest (Colorado), publication no. 2A134c

Minorities in Higher Education: The Changing Southwest (New Mexico), publication no. 2A134d

Minorities in Higher Education: The Changing Southwest (Texas), publication no. 2A134e

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Foreword

Sometimes we may become aware of societal trends without recognizing their potential effects on our social institutions. At other times, we may fail to respond adequately to social changes, even though we are aware that they are taking place. Among the virtues of our society are both the tendency toward self-correction--to make adjustments in our social institutions so that they function effectively—and the tendency toward making adjustments that anticipate needed changes and that, in a sense, preempt the need for self-correction.

As data in this and companion reports show, the current levels of education and income achieved by racial and ethnic minorities fall below that of Whites. This imbalance in economic and educational attainment, plus the rapid growth in the population of racial and ethnic minority groups, raises important issues for education and government policy makers in each state. It is the intent of this report to help focus the discussion on these issues and to encourage appropriate responses.

WICHE is grateful to the organizations and individuals who have worked with us on this important project. The College Board cosponsored the study and provided assistance and advice at several stages. The Atlantic Richfield Foundation provided additional financial support. A regional advisory committee, whose members are listed on the following page, provided valuable assistance in preparing these reports and helped develop a strategy for disseminating the results of the study.

December 1984

Phillip Sirotkin
Executive Director
Western Interstate Commission
for Higher Education

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Introduction

This series of state reports is intended to highlight the implications for educational planning of the changing demography of the Southwest. This project is the outgrowth of an earlier report, which was prepared to provide background data for a regional higher education conference on minority access and retention in higher education (Kaufman et al., 1983).

The decision to concentrate on minorities in higher education in the southwestern states follows from several conclusions that have been well documented.

- Certain racial and ethnic minorities have been underrepresented in higher education relative to nonminorities. This is especially true of Hispanic students, who are well represented, proportionally and numerically, in the population of these states.

- These minorities are even less well represented among college and professional school graduates.

- Increases in the proportion of racial and ethnic minorities among successive age cohorts present a challenge to educators and policy makers concerned with reversing these patterns of underrepresentation.

The reports focus on each of five southwestern states (Arizona, California, Colorado, New Mexico, and Texas) individually in order to call attention to the most important findings in each state.

As college-age populations in these five southwestern states grow in terms of both the numbers and percentages of ethnic minority individuals, policy makers will be faced with a number of serious educational and political questions. For example:

- Are current approaches to provision of educational opportunity--for all seeking it, regardless of ethnic background--sufficient, now and for the future?

- What are the implications for higher education and for institutions' program and resource "mix" of the growing minority share of the college-age population and the simultaneous decline (in some states) of the proportion of Whites in the same age groups?

- What are the implications of the growth of these minority populations for the economies of the states and their supplies of highly trained manpower, given the current distribution of minority students throughout the educational system (by institutional level and type, for example)?

- What are the implications for the higher education institutions of the current pattern of distribution of minority students, given the changes in the composition of the college-age group?

- If the educational patterns of minority students remain unchanged as their numbers grow, what are the possible social and political consequences?

These questions are meant only to suggest the seriousness and complexity of policy issues that need attention. The hope of the organizations publishing the report is that its contents will be useful as these challenging questions are addressed.

Definitions

The information in these reports comes primarily from two sources: the 1980 census of the population and related surveys by the United States Bureau of the Census provided population and demographic data, and the Higher Education General Information Survey (HEGIS) conducted by the National Center for Education Statistics (NCES) provided education data. Reference to these two sources ensures that there will be comparability in the data presented across states and that other users will have access to the same data sources.

Caution must be used when comparing the two data bases, however, because each source defines racial and ethnic groups differently, with particular impact on the "Hispanic" population group. The HEGIS format designates five racial or ethnic groups: American Indian, Black, Asian, Hispanic, and White. The Census Bureau uses the racial designations American Indian, Black, Asian, Other, and White, plus a further designation "Persons of Spanish Origin" and "Persons not of Spanish Origin," stating that persons of Spanish origin may be of any race. In this report, the Census Bureau data have been reconciled with the HEGIS data format, resulting in the following comparable groups:

HEGIS	CENSUS
American Indian	American Indians, Eskimos, and Aleuts whether of Spanish origin or not
Black	Blacks not of Spanish origin
Asian	Asian and Pacific Islanders whether of Spanish origin or not
Hispanic	Persons of Spanish origin, regardless of race
White	White, not of Spanish origin
Residual	Total population minus the above (also Other races not of Spanish origin)

While these breakdowns do not avoid all problems of comparability, they appear to work well for the purposes of this report. To keep the terminology short, in all cases Black and White refer to Black not-Hispanic and White not-Hispanic. Exhibits derived from census data refer to the category "Spanish origin," while exhibits derived from HEGIS data use the term "Hispanic" to identify essentially the same group.

It further must be recognized that the terms "Spanish origin" and "Hispanic" aggregate into one group several ethnic groups, e.g., Central American immigrants, Latinos, Mexican Americans, and others, which may vary from state to state. Each of these groups has its own demographic and cultural characteristics. Policy makers may wish to be aware of these different characteristics and of their implications for higher education.

The most recent and reliable data available were used in this report. In some cases more recent data were available, but older information was used because it was comparable with the data for earlier years whereas the newer data were not. Where the racial and ethnic composition of the college-age population is compared with the composition of the student population and the distribution of degrees among racial and ethnic groups (Exhibits 8A-8E and 9A-9E), HEGIS data from 1980 were used for the education information in order to compare them with census data from the same year.

Summary

- California's population is projected to be between 30.1 million and 31.5 million by the year 2000, up from 23.7 million in 1980, a twenty-year growth rate of between 27 and 33 percent. (See Exhibit 1.)

- More than 56 percent of the population growth from 1970 to 1980 can be accounted for by in-migration, which is projected to remain high. (See narrative for Exhibit 1.)

- People of Spanish origin accounted for 19.2 percent of the total population of California in 1980, but they accounted for 32 percent of the 0-4 age group. (See Exhibits 2 and 3.)

- By 2000, 40 percent of the age 0-4 population is projected to be of Spanish origin. (See Exhibit 3.)

- Blacks represented 7.5 percent of the total population in 1980, American Indians 0.9 percent, Asians 5.3 percent, and all others 0.5 percent. The state's Black population is the second largest in the United States, and the American Indian and Asian are the nation's largest. (See Exhibits 2 and 3.)

- California has the seventh highest proportion of people aged 25 and older with college degrees. Whites far exceed most minority groups in postsecondary educational attainment. (See Exhibit 4.)

- Nationwide figures show that 83 percent of Whites (adults and school-age respondents to census surveys during the period from 1974 to 1978) completed high school compared with 72 percent of Blacks and 55 percent of American Indians and Hispanics. State-level data for California are not available. (See narrative for Exhibit 4.)

- National data suggest that smaller percentages of students from low-income families enroll in postsecondary education than students from medium- and high-income families. In California, relatively high percentages of Spanish-origin, Black, and American Indian families earned less than $15,000 in 1979. (See Exhibits 5 and 6.)

- Present enrollment and earned degree patterns show considerable underrepresentation (relative to their proportions in the college-age population--aged 20-29) for Hispanics, Blacks, and American Indians at most levels of postsecondary education. Asians are generally well represented. (See Exhibits 7A-7E and 8A-8E.)

- Patterns of degrees awarded to minorities from 1976-77 to 1980-81 are markedly different from the overall pattern in California. Each minority group has a unique pattern. (See Exhibit 9.)

- In summary, the greatest population growth in the next twenty years will take place among the minority populations, whose rates of postsecondary educational attainment and socioeconomic status have been low historically.

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Exhibit 1
Population Growth, 1960 to 1980, and Four Projections, 1990 to 2000
—California—

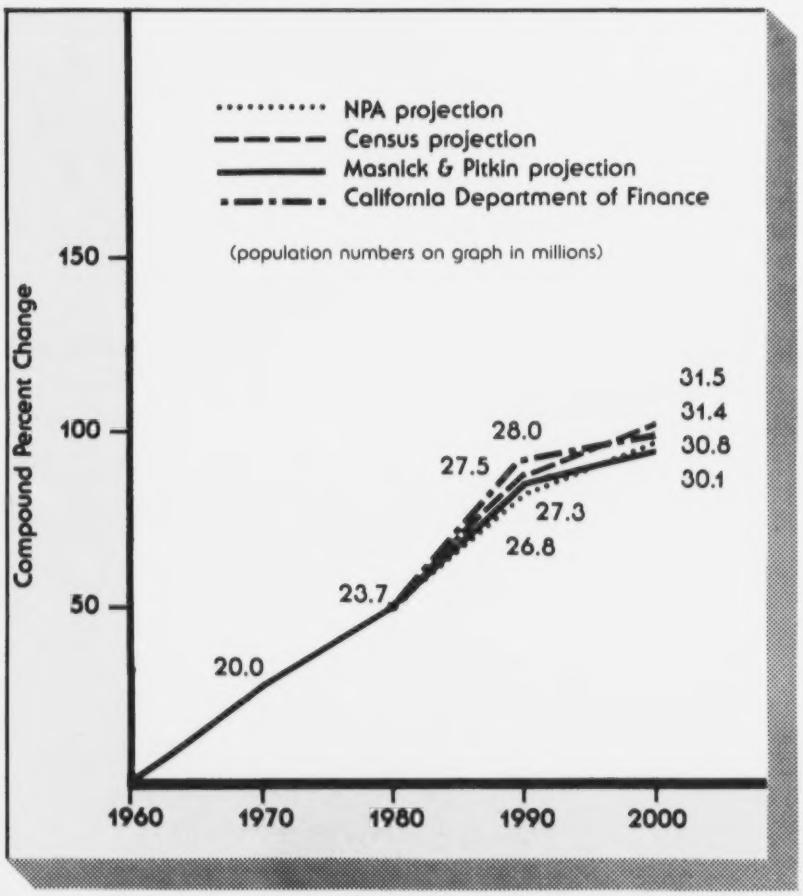
This exhibit shows the actual percentage growth in California's population from 1960 to 1980. The dotted, dashed, and solid lines represent four different population projections for 1990 and 2000. These projections are based on mathematical calculations of trends evident today. They do not take into account economic or social factors that may cause the growth rate to accelerate or to slow.

- California's population is projected to reach 30.1 million to 31.5 million by the year 2000, up from 23.7 million in 1980. The growth from 1980 to 1990 is estimated to be approximately 13 to 18 percent, and estimates of the overall change from 1980 to 2000 range from 27 to 33 percent.

- During the 1970s, California added 3.7 million to its population--the largest numerical gain in the country. California's huge population base prevents a large percentage increase in population from occurring during the next decade, but projections indicate that the state may experience faster proportional growth than 30 to 35 of the other states during the 1980s (Robey and Russell, 1983).

- More than 56 percent of the population growth from 1970 to 1980 can be attributed to in-migration and the other 44 percent to natural growth (Masnick and Pitkin, 1982). Many of the people migrating to California are young adults, who have attained or are approaching those years in which they will be starting families.

Exhibit 1
Population Growth, 1960 to 1980, and Four Projections, 1990 to 2000
—California—



Sources: Robey and Russell, 1983; U.S. Bureau of the Census, 1970 and 1980; Masnick and Pitkin, 1982; California Postsecondary Education Commission, 1984.

Note: The Masnick and Pitkin and the California Department of Finance projections are plotted as reported. Projections for 2000 from the National Planning Association and the Bureau of the Census are estimates calculated by regression analysis using actual population figures from the 1960, 1970, and 1980 censuses and the 1990 projections.

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Exhibit 2
Population by Race and Spanish Origin, 1980
—California—

Exhibit 2 presents the proportions of racial and ethnic groups in the 1980 population in California. Since the data collected on race and Spanish origin in 1970 and 1980 are not comparable, it is not possible to make an accurate comparison between the two censuses.

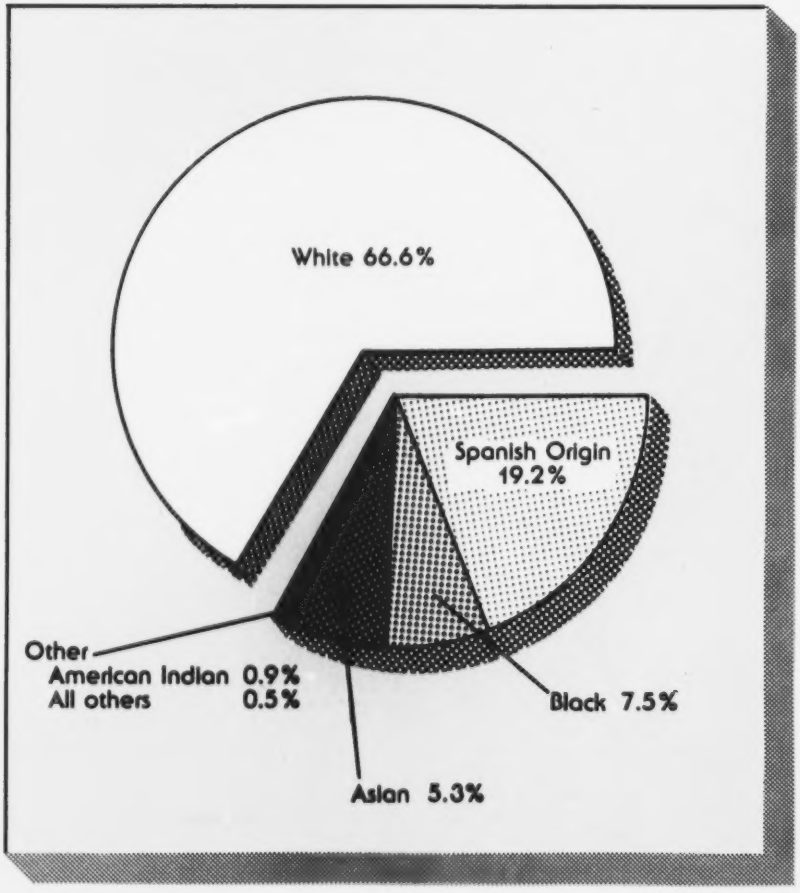
- California's largest minority group is the Spanish-origin population, the largest among the United States at more than 4.5 million in 1980. Slightly more than 19 percent of the population considers itself to be of Spanish origin, the third highest percentage among the states (American Demographics, 1983).

- Los Angeles had the largest metropolitan Spanish-origin population in the country in 1980, with more than 2 million. Other California metropolitan areas with large numbers of Spanish-origin inhabitants are Riverside-San Bernardino with nearly 290,000 (ranked eighth), Anaheim-Santa Ana with almost 286,000 (ninth), San Diego with more than 274,000 (tenth), San Jose with more than 226,000 (twelfth), Oakland with almost 186,000 (fourteenth), San Francisco with more than 166,000 (sixteenth), Fresno with more than 150,000 (twenty-first), Oxnard-Ventura with more than 113,000 (twenty-fifth), Sacramento with more than 105,000 (twenty-seventh), Bakersfield with more than 75,000 (thirty-fourth), Salinas-Seaside-Monterey with almost 75,000 (thirty-sixth), Visalia-Tulare-Porterville with more than 73,000 (thirty-seventh), Stockton with nearly 67,000 (fortieth), and Santa Barbara with more than 55,000 (forty-first). Nineteen of the top fifty metropolitan areas in proportion of Spanish origin population are in California, ranging from Visalia-Tulare-Porterville with 29.8 percent Spanish-origin population (ranked twelfth) to Sacramento with 9.6 percent of Spanish origin (forty-eighth) (American Demographics, 1983).

- Blacks constitute 7.5 percent of California's population, American Indians 0.9 percent, Asians 5.3 percent, all others 0.5 percent (Kaufman et al., 1983). Since California is such a populous state, however, these groups represent comparatively large numbers. The state's Black population is the second largest in the nation at 1.8 million, the Asian population is the largest (more than 1.2 million) and the second highest in proportion, and the American Indian population is the largest with more than 200,000 (U.S. Bureau of the Census, 1981).

- Four metropolitan areas in California have large Black populations, Los Angeles-Long Beach (943,000) ranks third in size in the nation, Oakland (almost 264,000) is eighteenth, San Francisco (more than 127,000) is thirty-eighth, and San Diego (more than 104,000) is forty-seventh (American Demographics, 1983).

Exhibit 2
Population by Race and Spanish Origin, 1980
—California—



Source: Kaufman et al., 1983, Table 21 and 23

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Exhibit 3
School and College-Age Population by Race and Spanish Origin, 1980 (Actual) and 2000 (Projected)
—California—

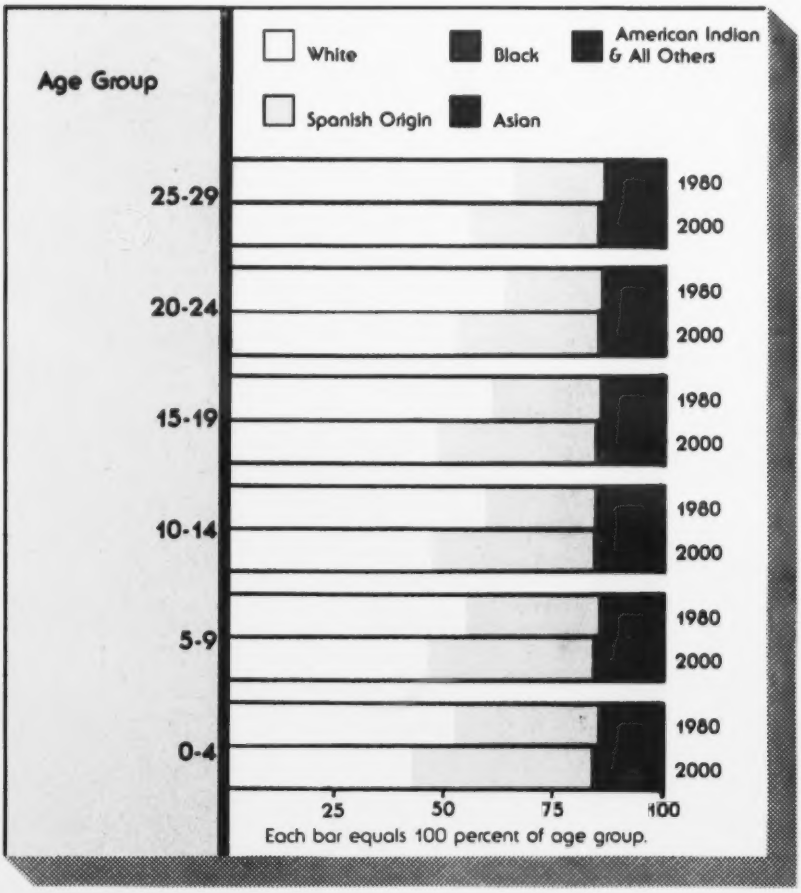
This exhibit shows the distribution of people of school age by race and Spanish origin for 1980 and a projection for the year 2000. The projection is based on a regression analysis of age cohorts from the 1980 census. Because the percentage of American Indians in California is so small, it has been included in the All Others category in Exhibit 3. American Indians constitute between 0.9 to 1.1 percent of the population groups aged 0-29. The projections do not show any trends toward substantial increases among this racial group between 1980 and 2000.

- Exhibit 3 shows that the Spanish-origin population tends to be highly concentrated in the younger age groups. Although people of Spanish origin constituted 19 percent of the total population of California in 1980, they represented 32, 29, and 25 percent respectively of the three youngest age groups (ages 0-4, 5-9, and 10-14).

- By the year 2000, children of Spanish origin are projected to account for 40, 38, and 36 percent respectively of the three youngest age groups.

- The numbers of Black, Asian, and American Indian children will not grow as rapidly as the Spanish-origin group, but by the year 2000, it is estimated that more than 10 percent of the children below age 15 in California will be Black.

Exhibit 3
School and College-Age Population by Race and Spanish Origin, 1980 (Actual) and 2000 (Projected)
—California—



Source: Kaufman et al., 1983, Tables 20 and 22

Note: American Indians constitute between 0.9 and 1.1 percent of the state population of the 0-29 age groups. There are no data to indicate that the American Indian proportion of the various age groups will increase substantially between 1980 and 2000.

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Exhibit 4
Educational Attainment by Race and Spanish Origin of Persons Aged 25 and Over, 1980
—California—

Exhibit 4 shows the proportions of the population aged 25 and over that have completed various levels of education. As the levels of educational attainment rise, the proportions of the population reaching those levels decrease. The differences in attainment among racial and ethnic groups are striking. It must be emphasized that school attainment of California adults in 1980 does not necessarily reflect what is taking place among the present generation of students in school, but the educational attainment of parents has been shown to affect the educational choices of their children.

- In 1980, California had the seventh highest proportion in the nation (19.8 percent) of college graduates in its population aged 25 or older and the tenth highest percentage of high school graduates (73.6 percent) (American Demographics, 1982).

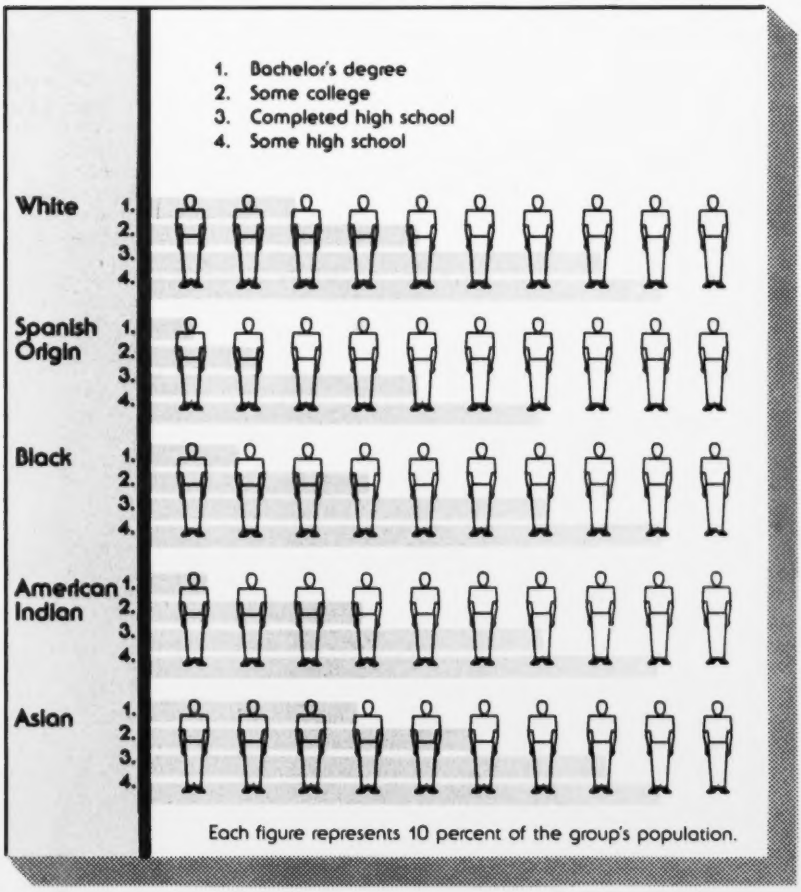
- Less than one-half of the Spanish-origin population aged 25 and over had completed high school in 1980, compared with more than three-fourths of the Whites and Asians and two-thirds of the Blacks and American Indians in the same age group.

- Approximately one-half of the Asians and Whites and one-third of the Blacks and American Indians aged 25 and over had completed some college, compared with one-fifth of the Spanish-origin population.

- The disparity in educational attainment is most striking at the bachelor's degree level or higher. In 1980, 21 percent of the White population and 31 percent of the Asian population aged 25 and over had completed at least a bachelor's degree, compared with 11 percent of the Blacks, 10 percent of the American Indians, and 6 percent of the Spanish-origin population.

- In a nationwide study, which shows the "leakage" of minorities from the "educational pipeline," 83 percent of White adult and school-age respondents in the Current Population Surveys from 1974 to 1978 completed high school compared with 72 percent for Blacks and 55 percent for Hispanics and American Indians (Astin, 1982). Data on persistence for California high school students are not available.

Exhibit 4
Educational Attainment by Race and Spanish Origin of Persons Aged 25 and Over, 1980
—California—



Source: Kaufman et al., 1983, Table CA-4

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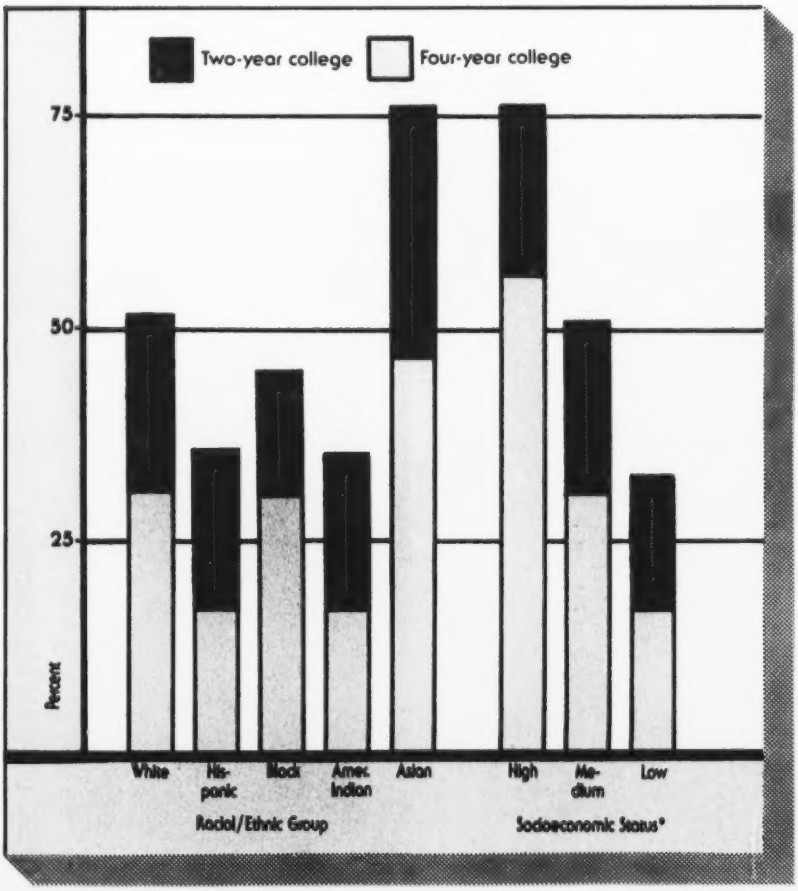
Exhibit 5
Percentage of 1980 U.S. High School Seniors Subsequently Enrolled in College

Taken together, Exhibits 5 and 6 illustrate the relationships among race and/or ethnicity, family income, and college attendance. Exhibit 5 displays the results of a national survey relating to the percentage of 1980 high school graduates who enrolled in college during the next several years (these data were not available on a state-by-state basis). It should be recognized that this was a national survey with limited generalization to the population of specific states. The survey did show that attendance patterns in the West were different from other regions. Although approximately the same percentage of western high school seniors attended college as seniors from other regions of the country, a greater percentage of students from the West attended two-year colleges than students from the other regions (28 percent in the West compared with 14 percent in the Northeast and 16 percent in the North Central states and the South).

- The five bars on the left of the exhibit show the college attendance patterns for the racial and Spanish-origin groups. White and Black students attended four-year institutions in approximately the same proportions, but a greater proportion of Whites than Blacks attended two-year institutions, which accounts for the greater overall college-going rate for Whites. Compared with the other groups, American Indian and Spanish-origin students attended two-year colleges in relatively large proportions and four-year colleges in smaller proportions. Attendance at both two-year and four-year institutions by students of Asian ancestry was far greater than for any other group.

- Attendance patterns vary according to socioeconomic status (SES), which is measured by a composite of parental education, family income, father's occupation, and household characteristics. High SES students are more likely to attend postsecondary educational institutions at all levels than those with lower SES.

Exhibit 5
Percentage of 1980 U.S. High School Seniors Subsequently Enrolled in College



Source: National Center for Education Statistics, 1984

*Socioeconomic status is measured by a composite of parental education, family income, father's occupation, and household characteristics.

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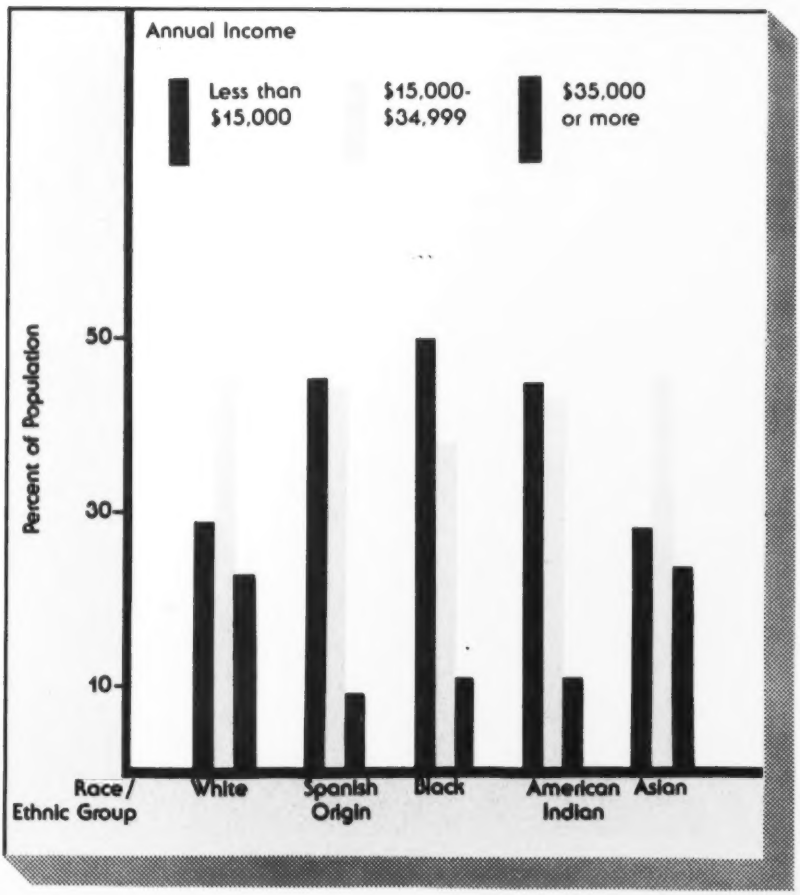
Exhibit 6
Family Income by Race and Spanish Origin, 1979
—California—

Exhibit 6 shows the percentages of the population with family incomes in three ranges: less than $15,000 per year; $15,000 to $34,999 per year; and $35,000 or more per year. The distribution for each racial or ethnic group is illustrated.

- About 50 percent of the Black, 46 percent of the Spanish-origin, and 45 percent of the American Indian populations come from families earning less than $15,000 per year, while only 10 to 11 percent of those groups come from families earning $35,000 or more.
- Family income levels for the White and Asian populations are similar: compared with the other racial or ethnic groups, relatively low percentages earn less than $15,000 and higher percentages earn more than $35,000.
- These figures, when combined with the general information on student attendance patterns presented in Exhibit 5, demonstrate the important connection between economic status and education.

Exhibit 6
Family Income by Race and Spanish Origin, 1979
—California—



Source: Kaufman et al., 1983, Table CA-6

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Exhibits 7A-7E
Postsecondary Enrollment
Compared with Representation in the Population, 1980
—California—

Exhibits 7A-7E display the composition of postsecondary enrollments by race and ethnicity compared with each group's representation in the college-age population (aged 20-29). Each exhibit uses bars to portray the proportion of one racial or ethnic group enrolled in each of the four levels of postsecondary education. The bars are superimposed upon a background field representing that group's proportion of the college-age population in the state. Thus, the reader can determine whether a group is well represented among postsecondary students in proportion to its representation in the population.

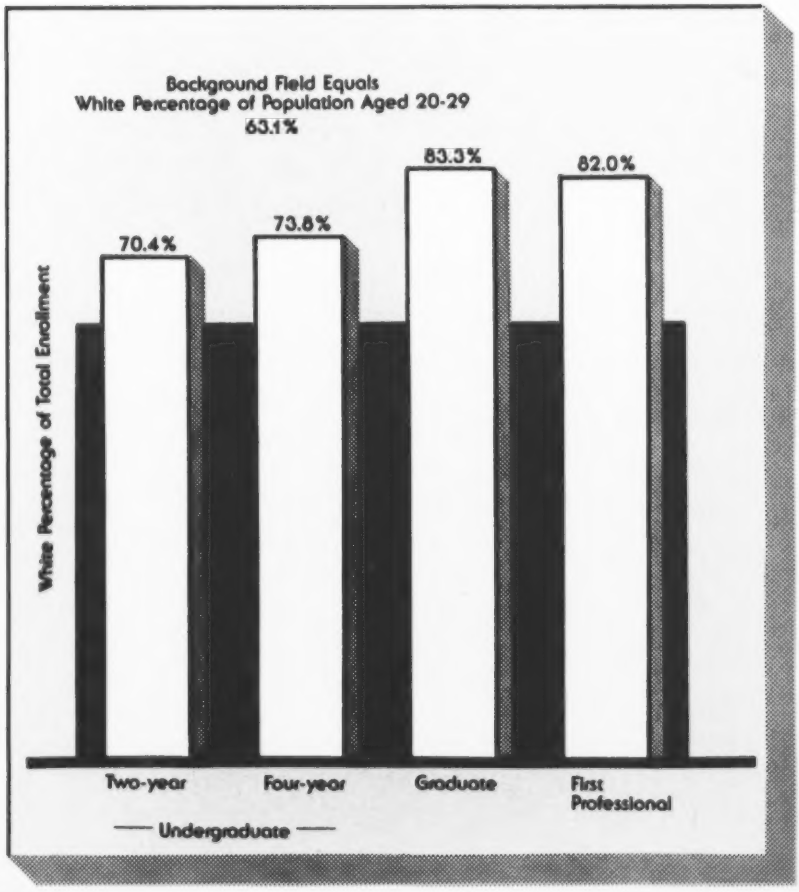
- The White proportion of enrollments at all levels of postsecondary education is greater than the White proportion of the college-age population in general. The White proportion of two-year college enrollment is substantially greater than the White share of the college-age population, and White representation increases at the four-year, graduate, and first professional levels.

- Hispanics are underrepresented at all levels of postsecondary education, especially at the graduate level, where the proportions of Hispanic enrollment is one-quarter as large as the Spanish-origin proportion of the college-age population in California.

- American Indians and Blacks are well represented at the two-year level, and American Indians are well-represented at the four-year level. At the other levels, however, they are underrepresented. At the graduate level, the proportion of Black students is slightly greater than one-half the size of the Black proportion of the state college-age population, and the American Indian proportion is approximately two-thirds the size of that group's proportion of the college-age population. At the first-professional level, both groups' proportions are approximately one-half the size of their proportions of the college-age population in the state.

- Asians are well represented at all levels of higher education. The proportions of Asians enrolled equals or exceeds the Asian proportion of the college-age population in California.

Exhibit 7A
White Postsecondary Enrollments
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 7 and 22

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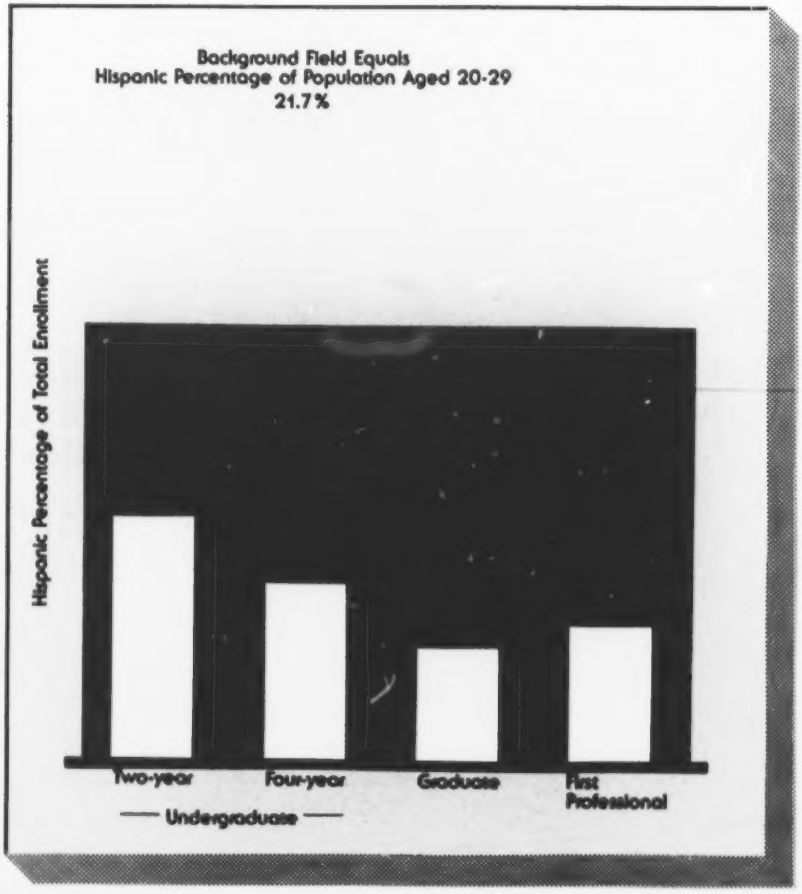
Exhibit 7B
Hispanic Postsecondary Enrollments
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 7 and 22

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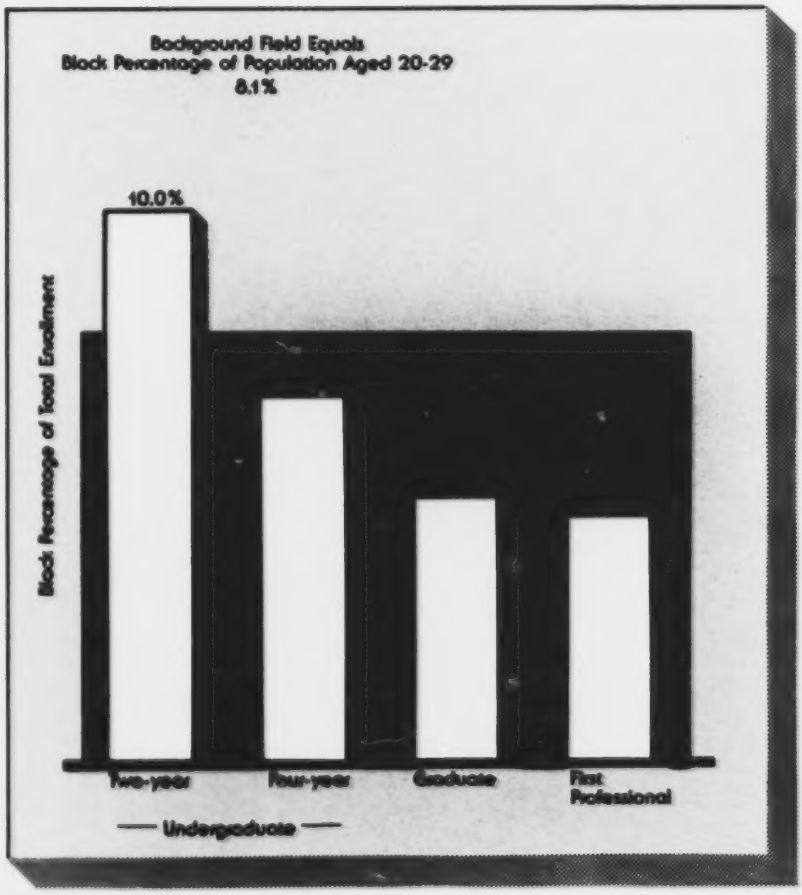
Exhibit 7C
Black Postsecondary Enrollments
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 7 and 22

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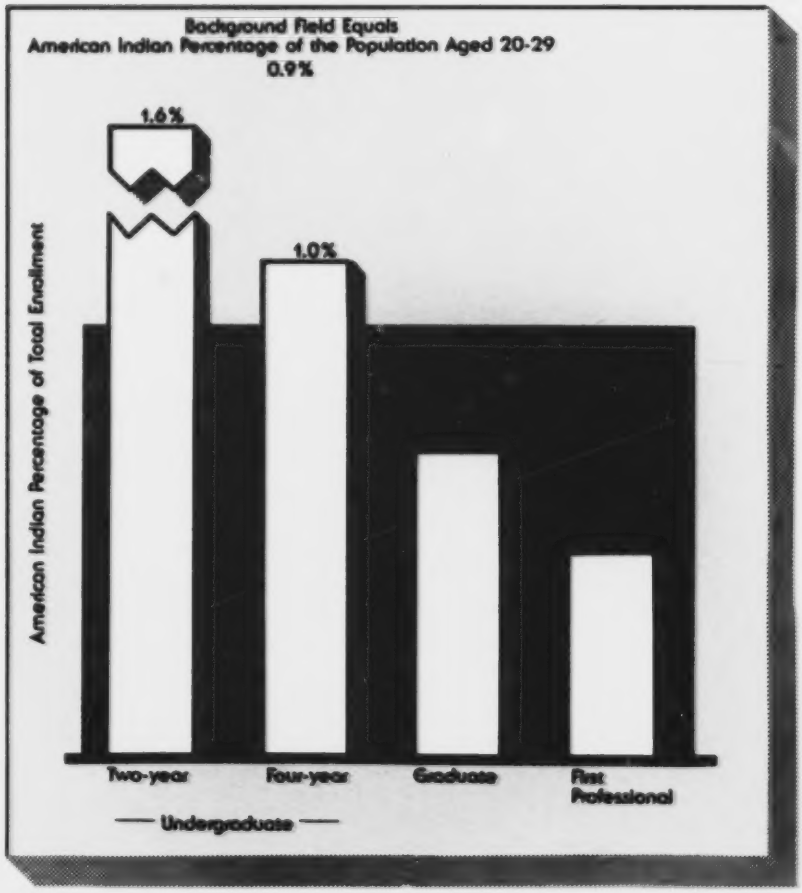
Exhibit 7D
American Indian Postsecondary Enrollments Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 7 and 22

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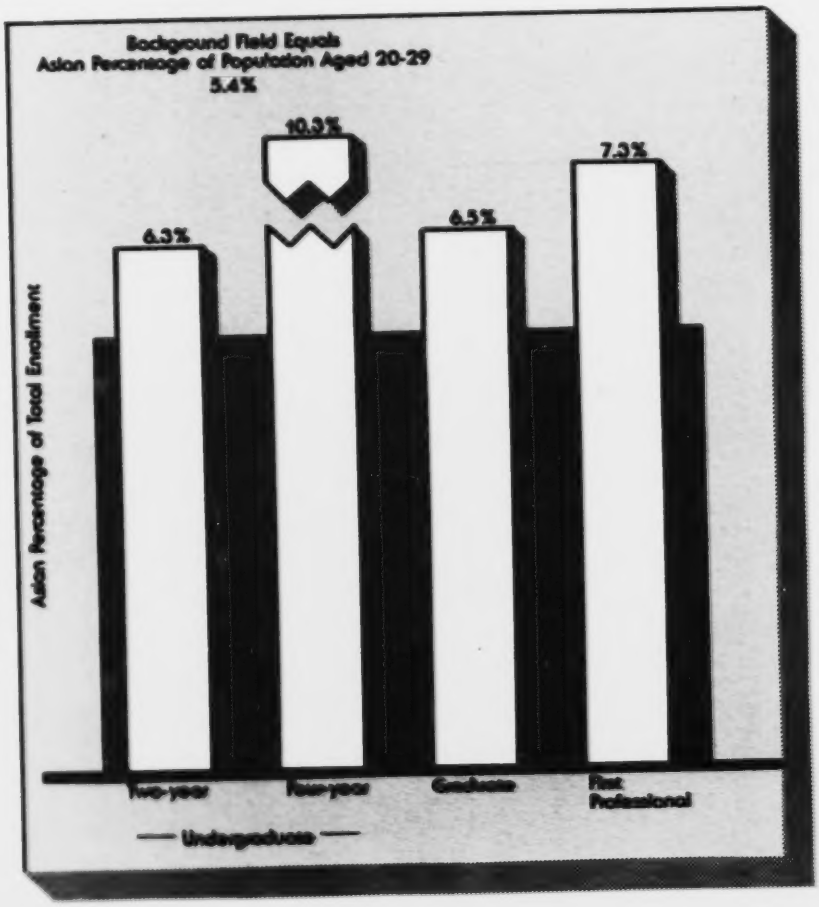
Exhibit 7E
Asian Postsecondary Enrollments Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 7 and 20

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Exhibits 8A-8E
Degrees Earned in California
Compared with Representation in the Population, 1980

Exhibits 8A-8E display the distribution among racial and ethnic groups of earned degrees at five levels (associate, bachelor's, master's, doctoral, and first professional) with each group's representation in the college-age population (aged 20-29). Each exhibit uses bars to portray the proportion of earned degrees by one racial or ethnic group in each of the five levels of postsecondary education. The bars are superimposed upon a background field representing that group's proportion of the college-age population. Thus, the reader can determine whether a group is well represented in earned degrees in proportion to its representation in the population.

- In general, when the proportions of degrees awarded to members of minority groups are compared with the proportions of the college-age population, the overall pattern of underrepresentation of minorities is similar to that in enrollments, especially at the baccalaureate and higher levels.

- The White proportion of those earning degrees at all levels of postsecondary education is substantially greater than the White proportion of the college-age population in general.

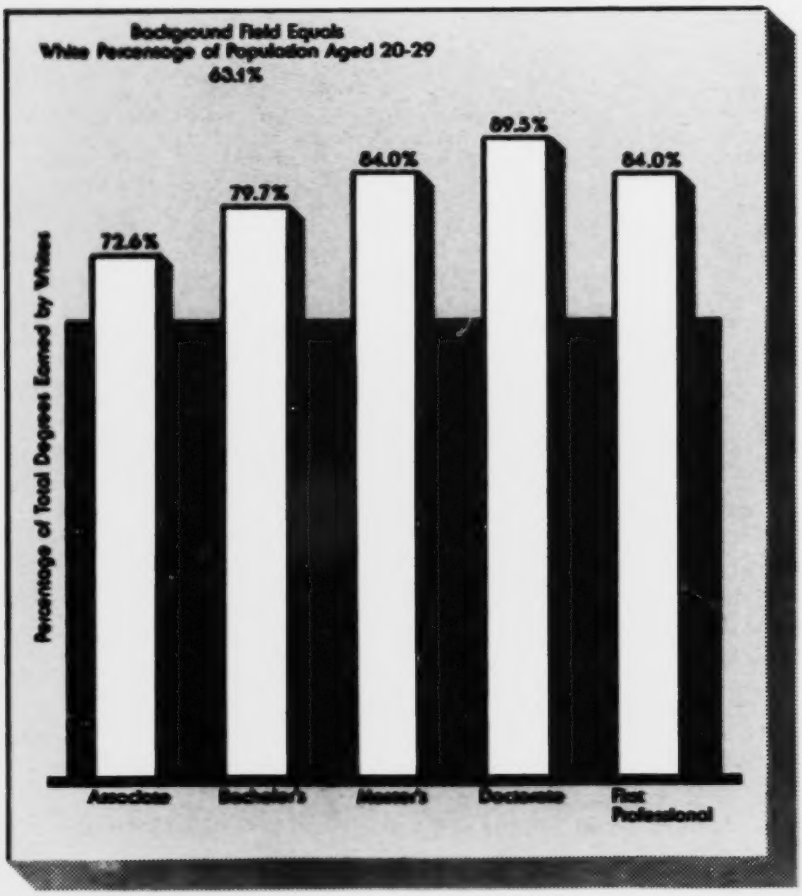
- Hispanics are underrepresented in earned degrees at all levels of postsecondary education. At the two-year degree level, the proportion of degrees earned by Hispanic students is slightly more than one-half the size of the Spanish-origin proportion of the college-age population in the state. The proportions of degrees earned by Hispanic students are approximately one-fourth as large as the Spanish-origin proportion of the college-age population at the bachelor's, master's, and first professional levels and less than one-tenth as large at the doctoral level.

- The proportion of degrees earned by Blacks at two-year institutions is about equal to the Black proportion of the college-age population. At higher levels, however, earned degrees of Blacks represent only about one-half of their share of that population group.

- American Indians are well represented at the two-year, bachelor's, and master's levels but underrepresented at the doctoral and first professional levels. The American Indian proportion of doctoral degrees is less than one-third the size of the American Indian proportion of the college-age population in California and less than one-half the size at the first professional level.

- The Asian proportions of degrees earned are substantially larger than the Asian proportion of the college-age population in the state at all levels except the doctoral.

Exhibit 8A
Degrees Earned by Whites
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 12 and 22

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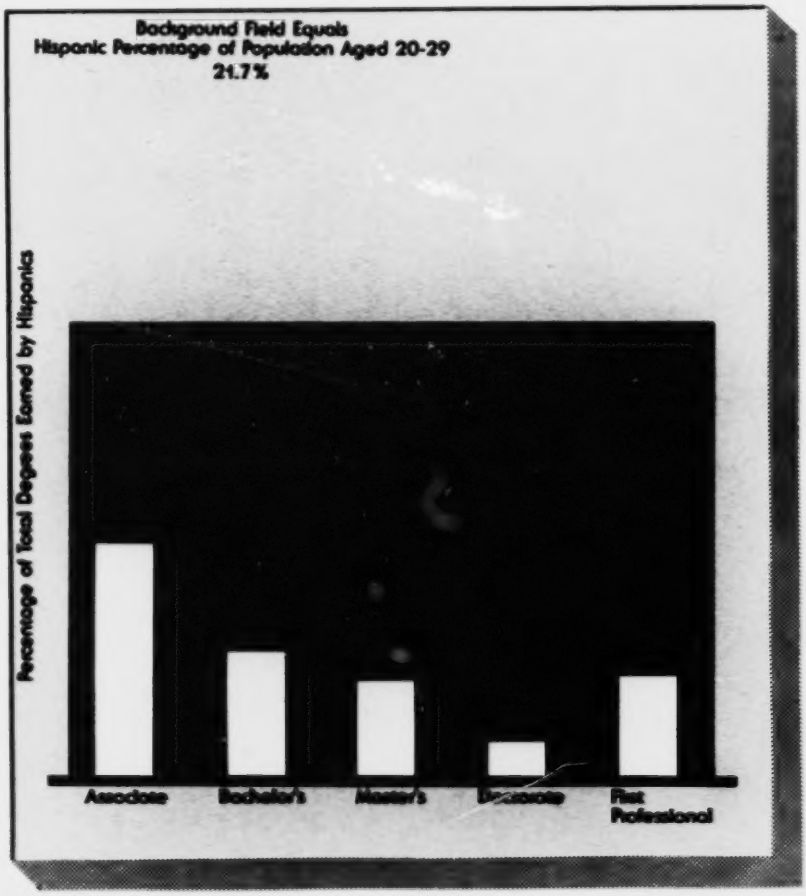
Exhibit 8B
Degrees Earned by Hispanics
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 12 and 22

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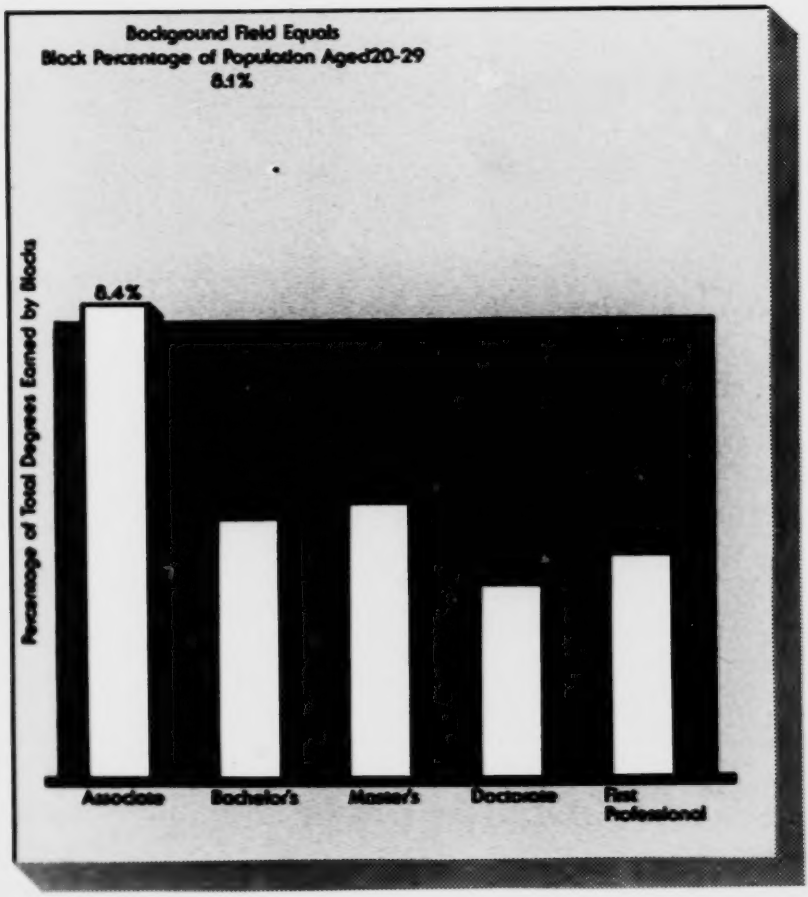
Exhibit 8C
Degrees Earned by Blacks
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 12 and 22

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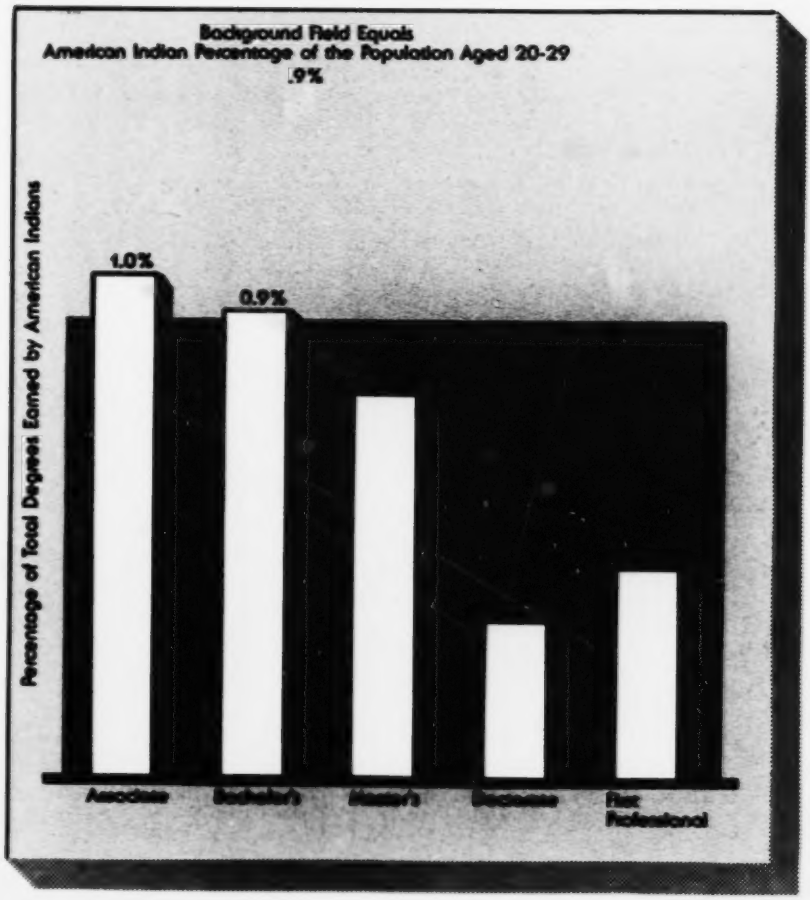
Exhibit 8D
Degrees Earned by American Indians
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 12 and 23

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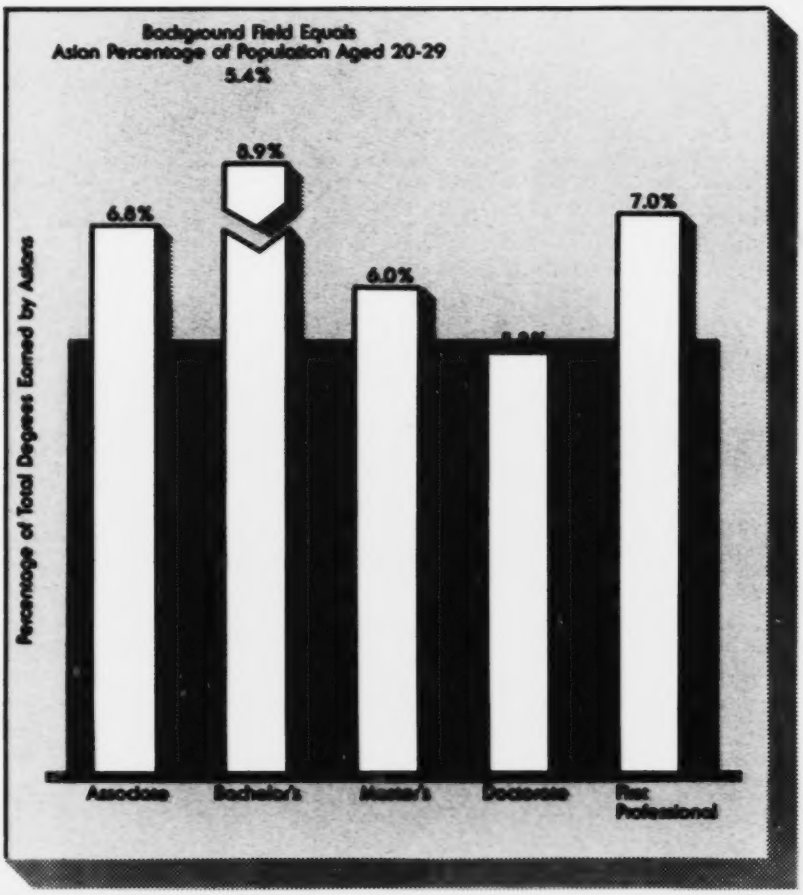
Exhibit 8E
Degrees Earned by Asians
Compared with Representation in the Population, 1980
—California—



Source: Kaufman et al., 1983, Tables 12 and 20

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Exhibit 9
Earned Degrees by Race and Spanish Origin, 1976-77 to 1980-81
—California—

This table presents the number of degrees awarded at five levels (associate, bachelor's, master's, doctoral, and first professional) by racial or ethnic group. At the doctoral and first professional levels, interpretation is difficult because such small numbers of degrees are awarded to minority students that year-to-year fluctuations appear as substantial percentage changes.

- The number of associate degrees awarded in California declined by 16 percent between 1976-77 and 1980-81, the number of doctorates increased by nearly 13 percent over the same period, and the number of first professional degrees increased by more than 8 percent. There were slight declines at the bachelor's and master's levels.

- At the bachelor's, master's, and first professional degree levels, there were substantial increases in degrees earned by Hispanic students between 1976-77 and 1980-81, but Hispanics experienced a significant decline in the number of doctorates during the same period. The decline in associate degrees awarded to Hispanics was far less than the overall decrease in California.

- Black students earned substantially more first professional degrees in 1980-81 than in 1976-77 but markedly fewer associate, bachelor's, and master's degrees.

- Although there was a substantial increase in bachelor's degrees awarded to American Indians from 1976-77 to 1980-81, there have been sharp declines at all other degree levels.

- In 1980-81 Asian students earned slightly more associate degrees and substantially more degrees at all other levels than they did in 1976-77.

Exhibit 9
Earned Degrees by Race and Spanish Origin, 1976-77 to 1980-81
—California—

	Degrees Awarded 1976-77	Degrees Awarded 1978-79	Percent Change 1976-78	Degrees Awarded 1980-81	Percent Change 1978-80	Percent Change 1976-80
State Totals						
Associate	70,172	59,595	-15.1	58,912	-1.1	-16.0
Bachelor's	82,413	82,376	-0.0	81,584	-1.0	-1.0
Master's	31,109	31,221	0.4	30,609	-2.0	-1.6
Doctorate	3,682	3,716	0.9	4,152	11.7	12.8
First Professional	7,885	8,550	8.4	8,545	-0.1	8.4
White Students						
Associate	53,179	43,831	-17.6	41,848	-4.5	-21.3
Bachelor's	66,642	64,940	-2.6	62,102	-4.4	-6.8
Master's	23,774	23,660	-0.5	22,712	-4.0	-4.5
Doctorate	2,797	2,877	2.9	3,183	10.6	13.8
First Professional	6,743	7,290	8.1	7,083	-2.8	5.0
Hispanic Students						
Associate	6,549	5,659	-13.6	6,448	13.9	-1.5
Bachelor's	3,930	4,276	8.8	4,725	10.5	20.2
Master's	1,037	984	-5.1	1,234	25.4	19.0
Doctorate	81	68	-16.0	62	-8.8	-23.5
First Professional	313	334	6.7	418	25.1	33.5
Black Students						
Associate	5,352	5,079	-5.1	4,854	-4.4	-9.3
Bachelor's	3,672	3,792	3.3	3,443	-9.2	-6.2
Master's	1,767	1,578	-10.7	1,276	-19.1	-27.8
Doctorate	117	96	-17.9	113	17.7	-3.4
First Professional	230	282	22.6	313	11.0	36.1
American Indian Students						
Associate	808	545	-32.5	572	5.0	-29.2
Bachelor's	627	650	3.7	697	7.2	11.2
Master's	217	181	-16.6	199	9.9	-8.3
Doctorate	21	11	-47.6	10	-9.1	-52.4
First Professional	60	37	-38.3	33	-10.8	-45.0
Asian Students						
Associate	3,628	3,406	-6.1	3,930	15.4	8.3
Bachelor's	5,152	5,949	15.5	6,951	16.8	34.9
Master's	1,423	1,439	1.1	1,632	13.4	14.7
Doctorate	65	121	86.2	187	54.5	187.7
First Professional	447	514	15.0	587	14.2	31.3

Source: Kaufman et al., 1983, Tables 12, 13, 14

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